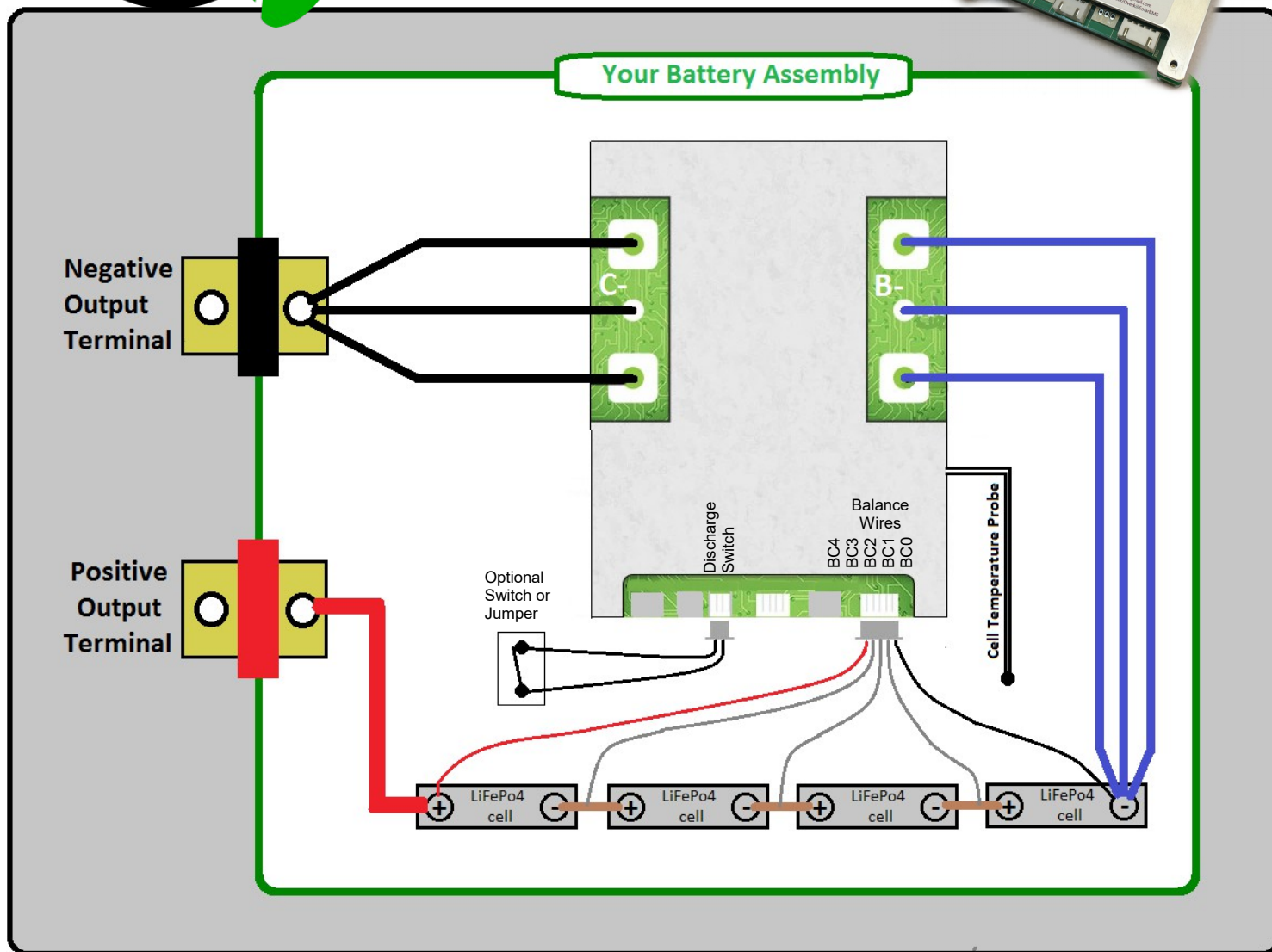




# Battery Management System For 4 cell LiFePO4 Batteries. 120A continuous rated current.

## Wiring Diagram: (Typical)



The BMS comes programmed for LiFePO4 cells.

All parameters can be adjusted.

Changing the parameters is potentially dangerous, proceed with caution!

To view or change Parameters, there are 3 ways to connect to the BMS.

1. Bluetooth module to IOS app. The app is on the Apple app store, it is free to view operational data, but costs \$6 to view and change parameters. Search for "xiaoxiang bms" (see other side)
2. Bluetooth module to Android app. This application is free.
3. USB module to PC/desktop application. This application is free.

Downloads and Support link:

Download the complete user manual: [OverkillSolar.com/support-downloads/](http://OverkillSolar.com/support-downloads/)

Email: [Support@OverkillSolar.com](mailto:Support@OverkillSolar.com)



**Unlimited Returns:**  
***If you have any problems with this BMS, we will take it back.***

Email:  
Support@OverkillSolar.com  
for tech support or advice.

If you need help I will help.

If it isn't working right I will  
replace it.

**If it's totally fried I will  
refund your money.**

*This includes anything you  
did to break it.*

Enjoy,  
Steve.

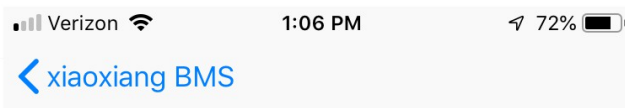
Email:  
Support@overkillSolar.com

**Please write a  
product review on  
OverkillSolar.com**

Include a photo of  
your finished battery,  
I would love to see it!

## Protection Parameters Explained:

These are the adjustable battery protection settings, as shown in this iPhone screenshot. Notes are in RED



Android and desktop users will find a different layout, but the functions are the same.



First, press "BMS read" to download current settings from the BMS

### Protections

	Trigger Value	Release Value	Delay [s]	
Cell over voltage	3650 mV	3500 mV	2	Disconnects charging current if any cell voltage goes over the Trigger value. Reconnects when all cells drop below the Release value.
Cell under voltage	2500 mV	3000 mV	2	Cuts off discharging current if any cell voltage goes under the Trigger value. Reconnects when all cells rise above the Release value.
Batt over voltage	14600 mV	14000 mV	2	Cuts off charging current if entire pack goes over the Trigger value. Reconnects when pack drops below the Release value.
Batt under volt.	10000 mV	12000 mV	2	Cuts off discharging current if entire pack falls under the Trigger value. Reconnects when pack rises above the Release value.
Charge over curr.	130000 mA	32 s	10	Cuts off charging current if the current exceeds the trigger value, for [delay] seconds. Reconnects after [release value] seconds.
Discharge over curr.	130000 mA	32 s	10	Cuts off discharging current if the current exceeds the trigger value, for [delay] seconds. Reconnects after [release value] seconds.
Charge over temp	65 °C	55 °C	2	Cuts off charging current if the probe temperature exceeds the trigger value. Reconnects after temp drops below the release value.
Charge under temp	-1 °C	5 °C	2	Cuts off charging current if the probe temp drops below the trigger value. Reconnects after probe temp rises above the release value.
Discharge over temp	75 °C	70 °C	2	Cuts off discharging current if the probe temperature exceeds the trigger value. Reconnects after temp drops below the release value.
Discharge under temp	-10 °C	0 °C	2	Cuts off discharging current if the probe temp drops below the trigger value. Reconnects after probe temp rises above the release value.

